## **BEST AVAILABLE COPY**

## XP-002137001

AN - 1999-409931 [35]

AP - JP19970330436 19971201

CPY - ISEE

DC - V05

FS - EPI

IC - H01J1/30 ; H01J31/12

PA - (ISEE) ISE ELECTRONICS CORP

PN - JP11162383 A 19990618 DW199935 H01J31/12 005pp

PR - JP19970330436 19971201

XIC - H01J-001/30; H01J-031/12

XP - N1999-306295

- AB JP11162383 NOVELTY Light emission area (110) is inserted into the body of front rib (108), and the electron emission portion (105) is formed by spaces created by side rib (104) on the substrate. The electron emission portion (105) has carbon nano tube which includes cylindrical shaped graphite layer. The electrode (106) on the side rib makes electron emission portion to emit electrons. DETAILED DESCRIPTION The front rib (108) and the substrate side rib (104) are oppositely arranged at predetermined distance to separate display surface and board substrate.
  - USE For e.g. field emission display (FED).
  - ADVANTAGE A uniform pattern is cheaply produced by using carbon nano tube of very minute structure. The discharge of electron is increased resulting in larger display area. DESCRIPTION OF DRAWING(S) The diagram shows the sectional and top view of the basic component of flat surface display. (104) Substrate side rib; (105) Electron emission portion; (106) Electron lead out electrode; (108) Front rib; (110) Light emitting area.
  - (Dwg.1/3)
- IW FLAT SURFACE DISPLAY FIELD EMIT DISPLAY EMIT ELECTRON HIGH DENSITY THROUGH CARBON NANO TUBE CYLINDER SHAPE GRAPHITE LAYER
- IKW FLAT SURFACE DISPLAY FIELD EMIT DISPLAY EMIT ELECTRON HIGH DENSITY THROUGH CARBON NANO TUBE CYLINDER SHAPE GRAPHITE LAYER

NC - 001

OPD - 1997-12-01

ORD - 1999-06-18

PAW - (ISEE) ISE ELECTRONICS CORP

TI - Flat surface display e.g. field emission display - emits electrons of high density through carbon nano tube which includes cylindrical shaped graphite layer